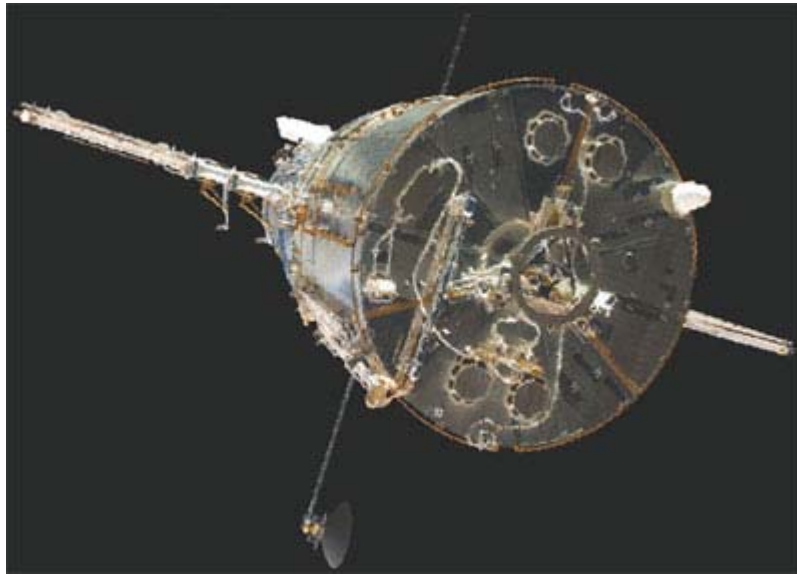


A Final Journey

An Even Better Hubble

In 2009, the famous telescope was made more powerful for the last time.

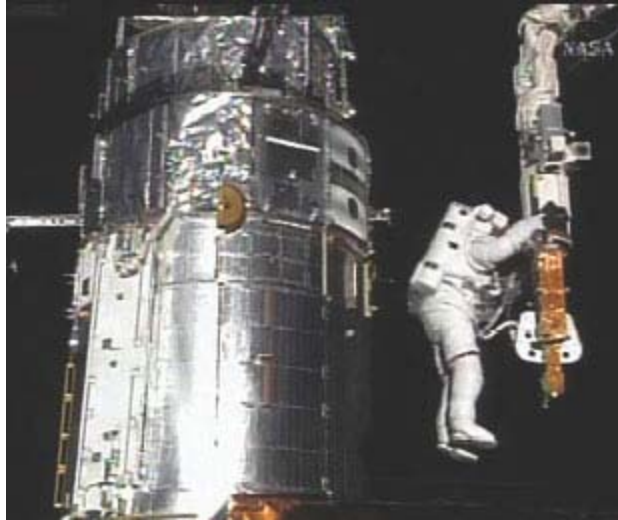


AP Photo/NASA
Hubble Space Telescope

The Hubble Space Telescope is high above Earth. It is a telescope in space. Hubble takes photos of planets, stars, and other space objects. The Hubble Space Telescope makes a full orbit every 97 minutes. If a car could move that fast, it could go from New York to California in less than 10 minutes!

Hubble has been in space since 1990. After its launch, there have been a few service missions to Hubble. Astronauts made repairs, updated parts, or added parts during each successful service mission. The last service mission was completed in 2009. In that service mission, a huge camera was added. Because of the camera, Hubble has been able to see deeper into space.

"This last mission to Hubble was the most difficult," says scientist Ken Carpenter. "It was a success because of the hard work of the astronauts in space and workers on the ground. Now Hubble is the best it's ever been!"

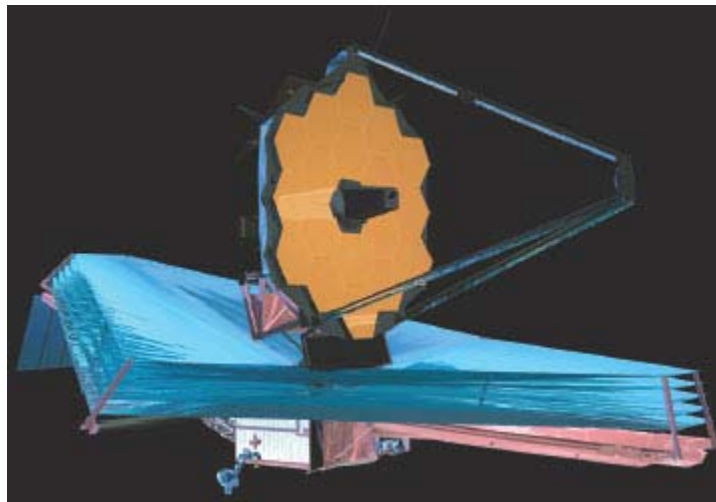


AP Photo/NASA TV

Astronaut John Grunsfeld made repairs to the Hubble Space Telescope.

How does Hubble take so many great photos? It has a great view! It is in orbit 350 miles above Earth. An orbit is a path that a space object travels around another space object.

The repairs to Hubble in 2009 were the last. Hubble will be replaced by the James Webb Space Telescope as early as 2018.



NASA

The James Webb Space Telescope will one day replace Hubble.

Name: _____ Date: _____

1. Where can the Hubble Telescope be found?

- A on a highway in California
- B in a museum in New York
- C in pictures on NASA TV
- D in orbit around Earth

2. What does the text describe?

- A service missions to the Hubble Telescope
- B how the Hubble Telescope was built
- C how the James Webb Space Telescope will replace the Hubble telescope
- D how objects stay in orbit in space

3. The author most likely wrote this passage in order to

- A teach astronauts how to fix the Hubble telescope while floating in space
- B inform readers about how astronauts made the Hubble telescope better
- C describe photos taken by the Hubble telescope of planets and other objects in outer space
- D persuade scientists that the James Webb telescope is better than the Hubble telescope

4. Read this sentence from the text: "After its launch, there have been a few service missions to Hubble. Astronauts made repairs, updated parts, or added parts during each successful service mission. The last service mission was completed in 2009. In that service mission, a huge camera was added. Because of the camera, Hubble has been able to see deeper into space."

Based on the text, the word **mission** most nearly means

- A a group that is sent to another country
- B a special job given to a person or group of people
- C a letter sent from one person to another
- D a reason to do something or make something

5. The passage "A Final Journey" is mostly about

- A the speed of the Hubble telescope in space
- B the path of the Hubble telescope around Earth
- C the repairs that astronauts made to the Hubble telescope
- D the plan to replace the Hubble telescope with the James Webb telescope

6. Based on the passage, what does the Hubble Telescope do in space?

7. Based on the information in the text, explain why the Hubble Telescope may be an important tool for scientists and researchers.

8. Choose the word that best completes the sentence.

The Hubble Telescope takes great photos in space _____ it has a great view.

- A but
- B because
- C although
- D after

9. Answer the questions based on the sentence below.

The James Webb Space Telescope will replace the Hubble as early as 2018.

What? the James Webb Space Telescope

What will the James Webb Space Telescope do? _____

When? _____

10. Read the vocabulary word and definition below and complete questions 10a and 10b.

Vocabulary Word: journey (jour · ney): a long trip from one place to another.

10a. Read the five sentences below and underline the word **journey** in each sentence.

1. The astronaut was very excited for her journey into space.
2. Their cruise to the islands was an amazing journey, but the travelers were happy to finally get back home.
3. How long do you think it would take to make a journey around the world?
4. During the journey to the airport the movie star was followed by photographers.
5. We drove across the country for two weeks, which was an amazing but long journey!

10b. Use the word "journey" in a sentence.
